

# Executive Summary Report

## SMOG CHECK Statewide

December 2007

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	658,107	86,127	13.09%
Total	756,718	107,878	14.26%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	559,713	85.05%	98,394	14.95%
Total	632,335	83.56%	124,383	16.44%

#### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	342,632	85.21%	59,469	14.79%
Total	388,688	84.43%	71,666	15.57%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	13,072	1.99%
All Emissions	42,437	6.45%
All Visual	8,996	1.37%
All Functional	31,085	4.72%
OBDII	27,224	4.14%
Overall	86,127	13.09%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	530,373	69,906	13.18%	10,387	1.96%
Partially Enhanced	30,505	4,727	15.50%	721	2.36%
Basic	58,040	7,188	12.38%	1,250	2.15%
Change of Ownership	4,313	738	17.11%	185	4.29%
No Program	5	0	0.00%	0	0.00%
Unknown Program	34,871	3,568	10.23%	529	1.52%
Total Program Area	658,107	86,127	13.09%	13,072	1.99%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	402,101	57,854	14.39%	9,270	2.31%
Regular	205,967	20,610	10.01%	2,612	1.27%
Basic Area Dealer	4,067	249	6.12%	24	0.59%
Gold Shield in Enhanced Area	35,440	5,679	16.02%	803	2.27%
Gold Shield in Basic Area	5,176	841	16.25%	184	3.55%
Gold Shield in COO Area	3,115	491	15.76%	131	4.21%
Business Fleet	1	0	0.00%	0	0.00%
Permanent Fleet Registered	19	1	5.26%	0	0.00%
Referee	559	269	48.12%	38	6.80%
Government Fleet	1,662	133	8.00%	10	0.60%
Total	658,107	86,127	13.09%	13,072	1.99%

#### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	191,730	169,821
Directed Vehicles	210,371	172,811
Total	402,101	342,632

#### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	32,950	27,532
Directed Vehicles	10,781	8,258
Total	43,731	35,790

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## 6. Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1972	2	1	50.00%	50.00%	50.00%	0.00%	0.00%	0.00%
MY-1973	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	7	1	14.29%	14.29%	0.00%	14.29%	0.00%	0.00%
MY-1975	12	5	41.67%	25.00%	16.67%	25.00%	16.67%	0.00%
MY-1976	1,075	353	32.84%	19.91%	9.40%	22.88%	9.58%	0.00%
MY-1977	1,498	488	32.58%	17.89%	8.41%	22.70%	8.54%	0.00%
MY-1978	1,636	552	33.74%	17.97%	8.25%	23.23%	8.86%	0.00%
MY-1979	1,997	730	36.55%	20.48%	10.07%	25.54%	9.86%	0.00%
MY-1980	1,195	369	30.88%	19.75%	12.05%	19.41%	8.28%	0.00%
MY-1981	1,413	436	30.86%	21.59%	10.97%	19.11%	8.70%	0.00%
MY-1982	1,833	568	30.99%	22.80%	10.80%	17.79%	7.31%	0.00%
MY-1983	2,114	671	31.74%	23.08%	11.02%	17.79%	7.52%	0.00%
MY-1984	4,333	1,428	32.96%	24.39%	12.09%	19.41%	7.06%	0.00%
MY-1985	5,793	1,871	32.30%	24.36%	12.00%	18.69%	6.78%	0.00%
MY-1986	8,475	2,415	28.50%	20.20%	9.57%	17.26%	5.35%	0.00%
MY-1987	11,065	3,228	29.17%	21.76%	8.85%	16.11%	4.66%	0.00%
MY-1988	11,938	3,139	26.29%	18.89%	7.51%	14.93%	4.00%	0.00%
MY-1989	16,481	4,013	24.35%	16.66%	6.27%	14.05%	3.33%	0.00%
MY-1990	19,316	4,392	22.74%	15.18%	5.17%	12.79%	2.71%	0.00%
MY-1991	22,406	4,595	20.51%	13.82%	4.31%	11.45%	2.22%	0.00%
MY-1992	21,301	4,099	19.24%	13.12%	4.12%	10.01%	1.99%	0.00%
MY-1993	26,588	5,368	20.19%	14.21%	3.49%	9.97%	1.78%	0.00%
MY-1994	30,946	5,560	17.97%	11.23%	2.32%	9.34%	1.84%	0.00%
MY-1995	40,313	6,457	16.02%	9.61%	2.02%	8.53%	1.66%	0.00%
MY-1996	32,666	5,324	16.30%	6.47%	1.06%	1.51%	1.13%	11.05%
MY-1997	48,013	6,592	13.73%	4.79%	0.81%	1.29%	0.86%	9.68%
MY-1998	45,257	4,683	10.35%	2.92%	0.56%	0.74%	0.55%	7.77%
MY-1999	61,851	5,031	8.13%	1.69%	0.32%	0.60%	0.48%	6.31%
MY-2000	62,056	3,928	6.33%	0.98%	0.21%	0.51%	0.39%	5.10%
MY-2001	79,233	6,346	8.01%	0.73%	0.16%	0.69%	0.35%	7.06%
MY-2002	54,510	1,949	3.58%	0.33%	0.09%	0.32%	0.23%	2.94%
MY-2003	14,964	626	4.18%	0.38%	0.11%	0.29%	0.16%	3.29%
MY-2004	12,551	453	3.61%	0.22%	0.07%	0.36%	0.10%	2.73%
MY-2005	5,285	198	3.75%	0.19%	0.06%	0.36%	0.28%	2.86%
MY-2006	4,588	136	2.96%	0.17%	0.02%	0.15%	0.20%	2.44%
MY-2007	4,714	104	2.21%	0.30%	0.15%	0.17%	0.32%	1.51%
MY-2008	681	18	2.64%	0.00%	0.00%	0.15%	0.00%	2.20%
All Model Years	658,107	86,127	13.09%	6.45%	1.99%	4.72%	1.37%	4.14%

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7. Referee Activity

	Certificates Issued
Certificate of Compliance	470
Certificate of Non Compliance	1
Parts Cost	64
Hardship Extensions	127
Exempt Vehicle	29
Exempted by Directive	103
Parts Exemption	0
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	794

8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,580
Stations Locked-Out at Least Once	289
Stations Conducted at Least One Test	7,315

9. Active Technicians

		Technician Count	Daily Average
EA	Both Endorsement	9,968	5,394
EA	Gas Endorsement	14	0
EB	Both Endorsement	54	0
EB	Gas Endorsement	518	0
GU	Both Endorsement	20	0

10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	355,927	49.33	39,567	50.25	395,494	49.42
Test and Repair	138,604	47.38	66,183	46.74	204,787	47.17
Test and Repair Dealer	13	60.92	4,054	48.84	4,067	48.88
Referee	285	30.00	122	30.00	407	30.00
Gold Shield in Enhanced Area	27,792	48.11	7,415	44.61	35,207	47.37
Gold Shield in Basic Area	4	54.75	5,172	34.63	5,176	34.65
Gold Shield in COO Area	41	55.95	3,099	50.32	3,140	50.39

11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	5,851	22.07	19,791	210.54
	\$51-150	5,232	100.63		
	\$151-250	3,178	198.84		
	\$251-450	3,279	336.12		
	Over \$450	2,251	789.50		
CAP Repairs	\$0-50	107	24.27	3,008	353.79
	\$51-150	260	108.70		
	\$151-250	450	203.29		
	\$251-450	1,175	352.58		
	Over \$450	1,016	519.26		
Total Repairs	\$0-50	5,190	22.33	20,559	254.44
	\$51-150	4,363	100.84		
	\$151-250	3,311	200.17		
	\$251-450	4,202	342.41		
	Over \$450	3,493	736.79		

12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	3,008	353.79

13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	11	1	0	0	0	1	1	0

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Referee	0	4	0	1	1	2	1	1
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	34	6	0	0	4	1	1	0
Acceleration Simulation Mode (ASM)	Basic	Test Only	32	9	1	0	5	4	2	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	4	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	3	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	19,765	4,091	562	199	1,322	2,034	1,396	456
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	57	1	1	23	16	13	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	185	163	24	67	38	77	64	82
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	96,693	10,261	1,037	465	4,822	3,883	2,948	881
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	288,463	51,094	8,160	2,441	14,027	28,399	18,965	5,250
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	1	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	1,843	442	76	20	124	250	135	40
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	11	13	4	4	4	6	4	9
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	13,111	2,574	373	116	707	1,303	1,005	255
Acceleration Simulation Mode (ASM)	Partial	Test Only	7,342	1,398	214	91	363	741	522	195
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,056	211	26	16	75	104	77	29
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	45	5	1	11	27	5	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	24	11	0	6	3	3	3	6
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	10,216	1,078	131	63	461	445	317	128

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	9,816	1,430	232	92	526	769	421	165
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	3,746	770	169	33	168	321	362	93
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	113	32	7	2	11	13	13	5
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	2,782	505	69	29	163	150	249	83
Two Speed Idle (TSI)	Basic	Government Fleet	0	8	2	0	3	4	2	1
Two Speed Idle (TSI)	Basic	Referee	20	20	0	12	7	3	8	12
Two Speed Idle (TSI)	Basic	Test and Repair	33,131	4,598	768	241	1,311	1,574	2,139	492
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,859	211	24	9	72	53	87	29
Two Speed Idle (TSI)	Basic	Test Only	6,226	1,022	210	70	283	409	415	121
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	24	6	1	0	2	2	4	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,331	312	90	24	47	158	151	40
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	112	30	5	2	8	9	13	6
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,333	283	63	22	63	116	136	45
Two Speed Idle (TSI)	Change of Ownership	Test Only	615	99	25	9	26	42	42	14
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	238	21	6	1	5	6	9	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	314	43	6	4	19	10	15	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,809	319	50	21	129	84	120	38
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	14	0	1	5	2	5	1
Two Speed Idle (TSI)	Enhanced	Referee	35	20	5	11	4	7	4	15
Two Speed Idle (TSI)	Enhanced	Test and Repair	17,151	1,240	144	61	651	278	368	130
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	309	17	0	0	12	1	3	0
Two Speed Idle (TSI)	Enhanced	Test Only	27,068	2,561	392	111	1,266	750	708	223
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	23	2	0	0	0	2	0	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	199	27	5	1	9	10	9	3
Two Speed Idle (TSI)	Partial	Test and Repair	1,486	182	36	13	61	69	76	25
Two Speed Idle (TSI)	Partial	Test Only	666	73	12	0	33	27	17	2
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	235	40	8	4	13	16	19	6
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	731	98	28	4	27	48	31	9
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	425	52	9	5	16	13	21	6

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	7	1	1	2	4	0	1
Two Speed Idle (TSI)	Unknown Program	Referee	27	20	5	2	2	13	1	17
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,144	388	60	19	185	112	116	38
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	379	17	0	1	9	1	5	1
Two Speed Idle (TSI)	Unknown Program	Test Only	2,400	167	24	9	87	49	47	16
UnKnown TestType	Basic	Referee	2	2	0	0	0	2	0	2
UnKnown TestType	Enhanced	Referee	3	4	0	0	0	4	0	3
UnKnown TestType	Partial	Referee	2	2	0	0	0	2	0	2
UnKnown TestType	Unknown Program	Referee	4	4	0	0	0	4	0	4

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